

**ABSTRACT**

A micro-electro-mechanical device formed by a body of semiconductor material having a thickness and defining a mobile part and a fixed part. The mobile part is formed by a mobile platform, supporting arms extending from the mobile platform to the fixed part, and by mobile electrodes fixed to the mobile platform. The fixed part has fixed electrodes facing the mobile electrodes, a first biasing region fixed to the fixed electrodes, a second biasing region fixed to the supporting arms, and an insulation region of insulating material extending through the entire thickness of the body. The insulation region insulates electrically at least one between the first and the second biasing regions from the rest of the fixed part.